

Title (en)

Radio receiver and method for adjusting the tuning frequency used in the same

Title (de)

Funkempfänger und Verfahren zum Einstellen der in diesem Funkempfänger verwendeten Abstimmfrequenz

Title (fr)

Récepteur de radio et méthode d'ajustement de la fréquence d'accord utilisée dans le même

Publication

EP 0868024 A1 19980930 (EN)

Application

EP 98302343 A 19980327

Priority

JP 7831597 A 19970328

Abstract (en)

A variation in tuning frequency of an RF tuning circuit due to temperature changes in a radio receiver is prevented. A tuning frequency of an RF tuning circuit (2) results from a coil (L) and a varicap diode (2a) that constitute the RF tuning circuit (2). A capacitance of the diode (2a) is corrected on the basis of a received frequency of a desired station and characteristics of the diode (2a) so that the tuning frequency matches the desired station. Thereafter, a temperature is detected by a temperature detection circuit (9). If a detected temperature T is within 0 DEG C to 50 DEG C, the tuning frequency of the RF tuning circuit (2) is maintained without change. If the detected temperature T is below 0 DEG C or higher than 50 DEG C, the tuning frequency is fine adjusted to become lower or higher, respectively.

IPC 1-7

H03J 3/04

IPC 8 full level

H03J 3/04 (2006.01); **H03J 3/20** (2006.01); **H04B 1/16** (2006.01); **H04B 1/26** (2006.01)

CPC (source: EP KR US)

H03J 3/04 (2013.01 - EP KR US); **H03J 3/10** (2013.01 - KR); **H04B 1/1638** (2013.01 - KR)

Citation (search report)

- [X] EP 0420508 A2 19910403 - NOKIA MOBILE PHONES LTD [FI]
- [X] PATENT ABSTRACTS OF JAPAN vol. 095, no. 004 31 May 1995 (1995-05-31)

Cited by

EP1580636A1; EP2109024A1; EP1302832A1; US6392501B1; US6717457B2

Designated contracting state (EPC)

DE FR IT NL

DOCDB simple family (publication)

EP 0868024 A1 19980930; EP 0868024 B1 20060315; DE 69833831 D1 20060511; DE 69833831 T2 20061102; JP 3234527 B2 20011204; JP H10276110 A 19981013; KR 100411208 B1 20050509; KR 19980080802 A 19981125; US 6243570 B1 20010605

DOCDB simple family (application)

EP 98302343 A 19980327; DE 69833831 T 19980327; JP 7831597 A 19970328; KR 19980010780 A 19980327; US 4741998 A 19980325